

of nucleic acids or proteins and wherein these nucleic acids or proteins are used as one or more principal components in a bioassay or the development of a bioassay.

BRIEF DESCRIPTION OF THE DRAWINGS

~~The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawing(s) will be provided by the Patent and Trademark Office upon request and payment of necessary fee.~~

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Figure 1A is a microphotograph showing the outgrowth of human ovarian mesothelial cells from solid ovarian tissue. Figure 1B is a microphotograph showing the growth of human ovarian mesothelial cells as cell clusters in a suspension culture. Figure 1C is a microphotograph showing growth of human ovarian mesothelial cells as a monolayer.

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Figure 2 shows the results of an immunohistochemical analysis wherein monoclonal antibody 5C8 specifically recognizes ovarian mesothelial cells in human fetal ovarian tissue. Figure 2A shows magnification at 100x and Figure 2B shows magnification at 400x.

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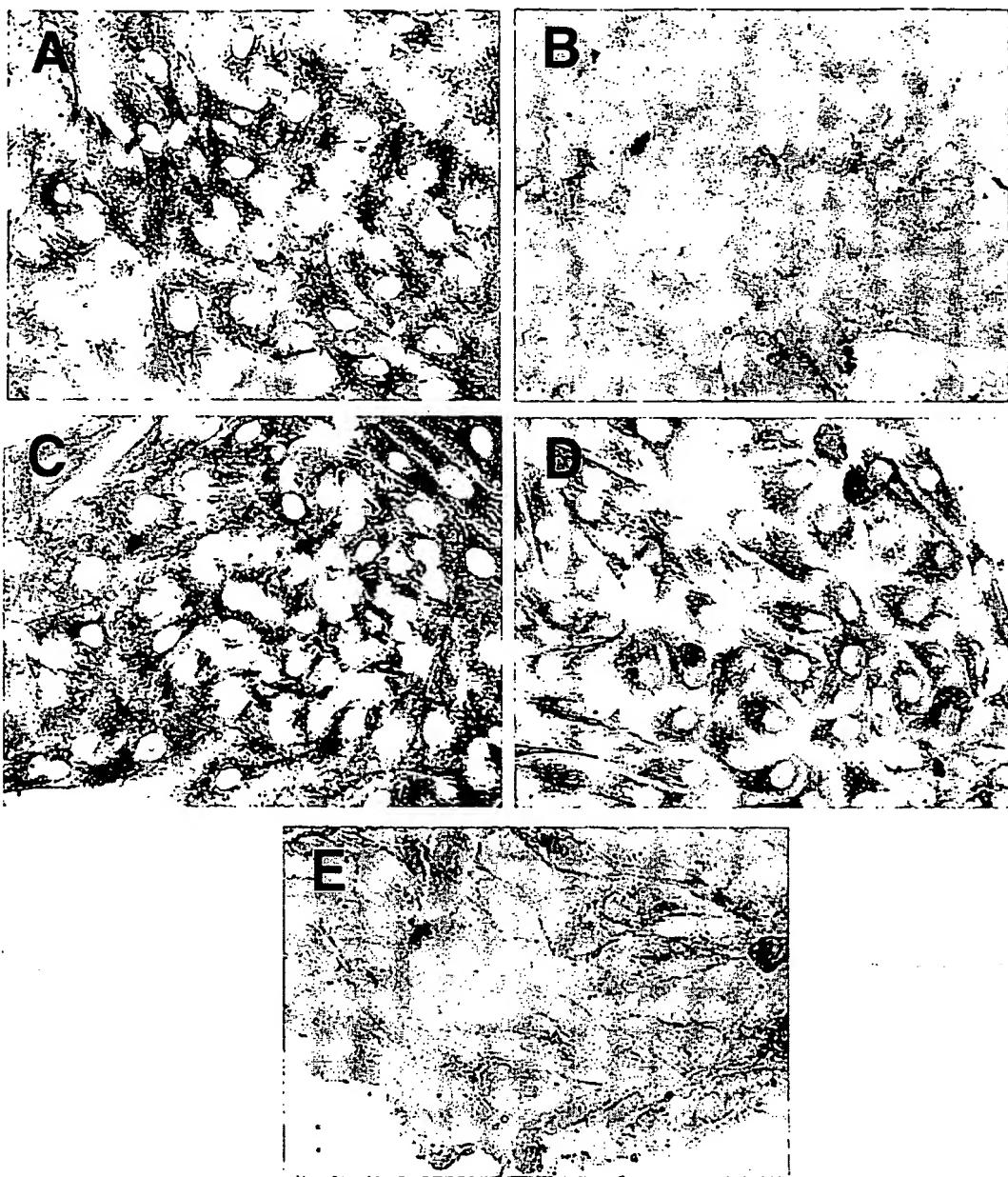
Figure 3 shows the results of an immunoperoxidase staining of ovarian mesothelial cell clusters. Figure 3A shows staining of ovarian mesothelial cells for cytokeratin 19. Figure 3B shows staining of ovarian mesothelial cells for cytokeratins 13 and 16. Figure 3C shows staining of ovarian mesothelial cells for cytokeratins 10, 11, and 18. Figure 3D shows staining of ovarian mesothelial cells for vimentin. Figure 3E shows staining of ovarian mesothelial cells for ovarian mesothelial cell surface antigen recognized by monoclonal antibody 5C8.

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Figure 4 shows the results of a tissue recombination experiment wherein human ovarian mesothelial cells were recombined with rat urogenital sinus mesenchymal tissue and transplanted into mice. Figures 4A, 4B, and 4C show the morphology of ovarian surface epithelial cells resembling cystic structures.



**Figure 3**



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App No.: 09/545,659

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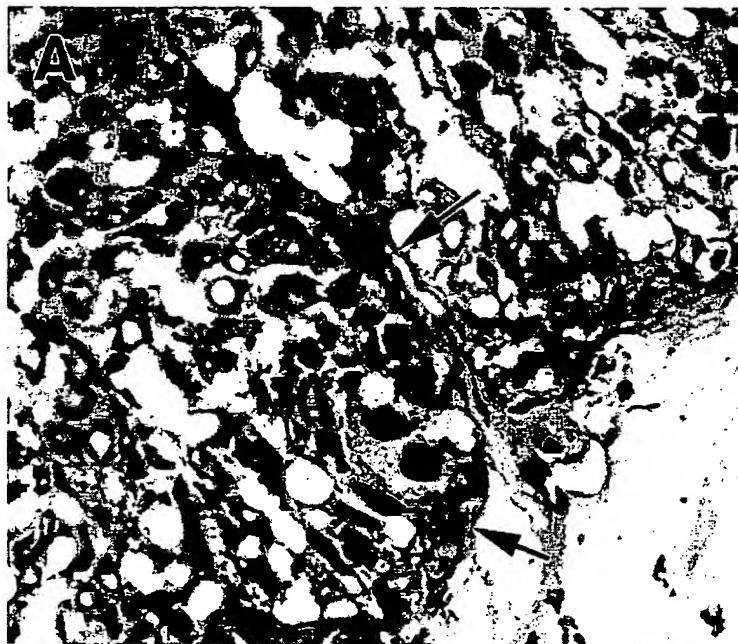
Inventor: Ronghao LI et al.

Title: HUMAN OVARIAN MESOTHELIAL CELLS AND METHODS OF  
ISOLATION AND USES THEREOF

Replacement Sheet



**Figure 5**



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